

# Mechanical Integrity Test Results

## Casing or Annulus Pressure Test

Osage ENR Department

100 W. MAIN ST, STE-304

Pawhuska, Ok 74056

Inspector: Larry Stephens

Test Date: 02/28/2014

Test Time: 9:50 AM

Operator Representative: JACOB BAYS

Date Report Sent to Operator:

### General Well Data

Operator: Chaparral Energy - 158

701 Cedar Lake Blvd.

OKC, OK 73114

Inventory Number: OS6273049

API Well No.: 35-113-99999-90-99

Well Name/No.: NBU 6W42

Location: SW 1 27N 5E 931S - 637W

Phone: (405) 426-4397

Field name:

Injection Interval: 2980 - 3008

USDW Bot:

Well Type:

Annulus Fluid Type: FwPF Concentric Pkr: - Packer Depth: 2950 Casing: 7 in. Tubing: 2.4 in.

### Tubing and Annulus Pressure Test Results

Type of MIT: Std. Annulus Pres. Test

Test Reason: Post Workover Test

Inj. Status: N Inj. Rate: bpd

Tubular Lining: Fiberglass

Time Since Ann Filled: Hrs

	Time	Tubing Pressure	Time	Annulus Pressure
Pre-Test:		0		0 psi
Initial:	9:50 AM	0		250 psi
Mid:	10:05 AM	0		250 psi
Final:	10:20 AM	0		250 psi

Flowback	Pressure	Volume
High:	250 psi	
Mid:	100 psi	9000 ml
Low:	20 psi	4500 ml
End:	0 psi	1250 ml
Total Volume:		14750 ml

#### Casing/Tubing Annulus Monitoring

Device:

Fluid Level: Annulus Prs: psi

Test Result: Pass

Failure Type:

Failure Cause:

Repair Due:

Engineer Signature

Review Date: 3/11/14

#### ADA Pressure Test - Required Test Pressure


(Fluid Column Ht \* Specific Gravity \* .433 / N2 Wt Fac = Required Test Pressure)

	Tubing	Annulus
Depth to Top Perf/Open Hole:	ft	ft
Depth to Fluid Level:	ft	ft
Fluid Column Height:	ft	ft
Specific Gravity of Fluid:	1.06	1.06
Nitrogen Weight Factor:		
Required Test Pressure:	psi	psi

### Additional Comments for Mechanical Integrity Test

PACKER DEPTH IS AT 2950'. POST WORKOVER  
MIT---HELD PRESSURE OK. PULL TUBING AND  
PACKER TEST AND LAYDOWN. CLEAN HOLE TO  
TD USING HEAVY MUD. PICK UP TUBING AND  
NEW PACKER.

**Well Inspection**  
**Osage ENR Department**  
**100 W. MAIN ST, STE-304**  
**Pawhuska, Ok 74056**

Inspector: Larry Stephens  Dt/Tm Inspected: 2/28/2014 9:50:00 Duration: 1.7  
Operator Representative: JACOB BAYS Dt Scheduled: \_\_\_\_\_ Dt Op Notified \_\_\_\_\_

**General Well Data and Inspection Information**

Operator: Chaparral Energy	Inventory No.: <u>OS6273049</u> API Well No. <u>35-113-99999-90-99</u>
701 Cedar Lake Blvd.	Well Name/No.: <u>NBU 6W42 6W42</u> Status: _____
OKC OK 73114-	Location: <u>SW 1 27N 5E 637W - 931S</u> Well Type: _____
Phone: (405) 426-4397	Field Nm: _____ Lat/Lng: <u>36.8423 , 96.7231 G</u>

**ROUTINE W/MIT INSPECTION**

Purpose: <u>Operator Request</u>	Responsible Company at Time of Inspection: <u>Chaparral Energy</u>	_____
Inspect No.: <u>iLMS1406458266</u>	Notification Type: _____	
Incident No.: _____	Date Letter Sent to Owner: _____	Extension Date: _____
Comply No.: _____	Date Remedy Required: _____	Date Passed: _____

**Pressures / Conditions**

Date Last MIT: 2/28/2014 9:50:00 AM Test Result: \_\_\_\_\_ Casing: 7 in. Tubing: 2.375 in. USDW: \_\_\_\_\_ ft subsurf

Monitoring Device Elected:	_____
Monitoring Device:	_____
FLM Canister Pressure:	_____
Lease Status:	<u>Active</u>
Barrel Monitor Hooked Up?:	_____
Barrel Fluid Level (%):	_____
Flowline Hooked Up?:	<u>Y</u>
Injecting?:	<u>N</u>

	Tubing	Annulus	
Fittings:	<u>Y</u>	<u>Y</u>	<b>AUTHORIZED</b>
Actual Pressure:	<u>0</u>	<u>0</u>	Max Pressure: _____
How Determined?:	<u>COMP</u>	<u>OV</u>	Min Req Press: _____
Static Fluid Level:	<u>0</u>	<u>0</u>	Max Rate: _____
How Determined?:	<u>0</u>	<u>0</u>	
Injection Rate (bpd):	_____	_____	How Rate Determined? _____

**Comments**

ACTIVE WELL; POST WORKOVER MIT----HELD  
PRESSURE OK. PULL TUBING AND PACKER, TEST  
AND LAY DOWN. CLEAN OUT HOLE TO TD USING  
HEAVY MUD. PICK UP TUBING AND NEW PACKER  
SETTING IN HOLE AT 2950'.

US ENVIRONMENTAL PROTECTION AGENCY  
OSAGE UIC PROGRAM  
100 W. MAIN ST, SUITE 304  
PAWHUSKA, OK 74056

US ENVIRONMENTAL PROTECTION AGENCY  
REGION VI - (6W-SE)  
1445 ROSS AVE  
DALLAS, TEXAS 75202-2733

NOTICE OF INSPECTION

DATE 2-28-14 HOUR 09:40 am

Firm Name

Chaparral Energy

Firm Address

Inspector Name & Title

Larry Stephens - geologist

Inspector Signature

ums

Notice of inspection is hereby given according to Section 1445(b) of the  
Safe Drinking Water Act (42 U.S.C. §300 f et seq.)

Reason for Inspection

Post Workover MIT

For the purpose of inspecting records, files, papers, processes, controls and facilities, and  
obtaining samples to determine whether the person subject to and applicable underground  
injection control program has acted or is acting in compliance with the Safe Drinking Water  
Act and any applicable permit or rule.

Conn - yes  
NBU 6W42  
SW1-27N-5E  
05#:

Conn - yes  
IWI - No  
on Ann (00)

9:50 @ 250 #  
10:05 @ 250 #  
10:20 @ 250 #

Packer @ 2950'  
2 3/8" Fiberglass tbg 2944'  
7" Casing  
Perts: 2980-3008

Pull tbg: Packer  
Test. Clean hole to  
TD using hvy mud  
Pick up new tbg:  
New Packer.

250-100 = 9000 ml  
100-20 = 4500 ml  
20-0 = 1250 ml  
Total = 14,750 ml

Held Pressure OK

Section 1445(b) of the SDWA (42 U.S.C. §300 j-4 (b) ) is quoted on the reverse of this form  
EPA Form

Receipt of this Notice of Inspection is hereby acknowledged.

Title:

Date:

# Mechanical Integrity Test Results

## Casing or Annulus Pressure Test

Osage ENR Department

100 W. MAIN ST, STE-304

Pawhuska, Ok 74056

Inspector: Larry Stephens

Test Date: 02/28/2014

Test Time: 10:40 AM

Operator Representative: JACOB BAYS

Date Report Sent to Operator: \_\_\_\_\_

### General Well Data

Operator: Chaparral Energy - 158  
701 Cedar Lake Blvd.  
OKC, OK 73114

Inventory Number: OS0267

API Well No.: 35-113-08218-00-00

Well Name/No.: NBU 25-W21

Location: NW 13 27N 5E 890S - 565W

Phone: (405) 426-4397

Field name: \_\_\_\_\_

Injection Interval: 2982 - 3024 USDW Bot: 166

Well Type: EOR

Annulus Fluid Type: SW PF Concentric Pkr: - Packer Depth: 2931 Casing: 3.5 in. Tubing: 2.1 in.

### Tubing and Annulus Pressure Test Results

Type of MIT: Std. Annulus Pres. Test

Test Reason: Post Workover Test

Inj. Status: Y Inj. Rate: \_\_\_\_\_ bpd Tubular Lining: Fiberglass Time Since Ann Filled: \_\_\_\_\_ Hrs

	Time	Tubing Pressure	Time	Annulus Pressure
Pre-Test:		500		0 psi
Initial:	10:40 AM	500		260 psi
Mid:	10:55 AM	500		260 psi
Final:	11:10 AM	500		260 psi

Flowback	Pressure	Volume
High:	260 psi	
Mid:	100 psi	1500 ml
Low:	20 psi	950 ml
End:	0 psi	100 ml
Total Volume:		2550 ml

#### Casing/Tubing Annulus Monitoring

Device: \_\_\_\_\_

Fluid Level: \_\_\_\_\_ Annulus Prs: \_\_\_\_\_ psi

Test Result: Pass

Failure Type: \_\_\_\_\_

Failure Cause: \_\_\_\_\_

Repair Due: \_\_\_\_\_

Engineer Signature: \_\_\_\_\_

Review Date: 3/11/14

#### ADA Pressure Test - Required Test Pressure


(Fluid Column Ht \* Specific Gravity \* .433 / N2 Wt Fac = Required Test Pressure)

	Tubing	Annulus
Depth to Top Perf/Open Hole:	_____ ft	_____ ft
Depth to Fluid Level:	_____ ft	_____ ft
Fluid Column Height:	_____ ft	_____ ft
Specific Gravity of Fluid:	1.06	1.06
Nitrogen Weight Factor:	_____	_____
Required Test Pressure:	_____ psi	_____ psi

### Additional Comments for Mechanical Integrity Test

PACKER SET AT 2931'. POST WORKOVER MIT---  
HELD PRESSURE OK. PULL TUBING AND PACKER  
AND TES. CLEAN HOLE TO TD USING HEAVY  
MUD. PICK UP TUBING AND NEW PACKER  
SETTING IN HOLE AT 2931'.

**Well Inspection**  
**Osage ENR Department**  
**100 W. MAIN ST, STE-304**  
**Pawhuska, Ok 74056**

Inspector: Larry Stephens  Dt/Tm Inspected: 2/28/2014 10:40:00 Duration: 0.8  
Operator Representative: JACOB BAYS Dt Scheduled: \_\_\_\_\_ Dt Op Notified \_\_\_\_\_

**General Well Data and Inspection Information**

Operator: Chaparral Energy 701 Cedar Lake Blvd. OKC OK 73114- Phone: (405) 426-4397	Inventory No.: <u>OS0267</u> API Well No. <u>35-113-08218-00-00</u> Well Name/No.: <u>NBU 25-W21 25-W21</u> Status: _____ Location: <u>NW 13 27N 5E 565W - 890S</u> Well Type: <u>EOR</u> Field Nm: _____ Lat/Lng: <u>36.8207 , -96.7235 G</u>
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**ROUTINE W/MIT INSPECTION**

Purpose: <u>Inspection During MIT</u>	Responsible Company at Time of Inspection: <u>Chaparral Energy</u>	
Inspect No.: <u>iLMS1406531282</u>	Notification Type: _____	
Incident No.: _____	Date Letter Sent to Owner: _____	Extension Date: _____
Comply No.: _____	Date Remedy Required: _____	Date Passed: _____

**Pressures / Conditions**

Date Last MIT: 2/28/2014 10:40:00 AM Test Result: \_\_\_\_\_ Casing: 3.5 in. Tubing: 2.062 in. USDW: 166 ft subsurf

Monitoring Device Elected: _____
Monitoring Device: _____
FLM Canister Pressure: _____
Lease Status: <u>Active</u>
Barrel Monitor Hooked Up?: _____
Barrel Fluid Level (%): _____
Flowline Hooked Up?: <u>Y</u>
Injecting?: <u>Y</u>

	Tubing	Annulus	
Fittings:	<u>Y</u>	<u>Y</u>	<b>AUTHORIZED</b>
Actual Pressure:	<u>500</u>	<u>0</u>	Max Pressure: _____
How Determined?:	<u>COMP</u>	<u>OV</u>	Min Req Press: _____
Static Fluid Level:	<u>0</u>		Max Rate: _____
How Determined?:	<u>O</u>		
Injection Rate (bpd): _____			How Rate Determined? _____

**Comments**

ACTIVE WELL; POST WORKOVER MIT----HELD  
PRESSURE OK. PULL TBG AND PACKER,TEST.  
CLEAN HOLE TO TD W HEAVY MUD. PICK UP  
TUBING AND NEW PACKER SETTING HOLE AT 2931'.

US ENVIRONMENTAL PROTECTION AGENCY  
OSAGE UIC PROGRAM  
100 W. MAIN ST, SUITE 304  
PAWHUSKA, OK 74056

US ENVIRONMENTAL PROTECTION AGENCY  
REGION VI - (6W-SE)  
1445 ROSS AVE  
DALLAS, TEXAS 75202-2733

NOTICE OF INSPECTION

DATE 2-28-14 HOUR 10:35am

Firm Name

Chaparral Energy

Firm Address

Inspector Name & Title

Larry Stephens - geologist

Inspector Signature

Lms

Notice of Inspection is hereby given according to Section 1445(b) of the  
Safe Drinking Water Act (42 U.S.C. §300 f et seq.)

Reason for Inspection

Post Workover MIT

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to and applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable permit or rule.

NBU 25W21

NW 13-27N-5E

OS# 0267

Conn - yes

INJ - yes @ 500#

D on Ann (OV)

10:40 @ 260#

10:55 @ 260#

11:10 @ 260#

Packer @ 2931'

2 1/16" tbg @ 2925'

3 1/2" casing @ 2966'

Pull tubing & Packer - Test

Clean hole & TD w/ hvy

Mud. Pickup & tbg; New

Packer Setting @ 2931'

260 - 100 = 1500 ml  
100 - 20 = 950 ml  
20 - 0 = 100 ml  
Total = 2,550 ml

Hold Pressure OK

Section 1445(b) of the SDWA (42 U.S.C. §300 j-4 (b) ) is quoted on the reverse of this form

EPA Form

Receipt of this Notice of Inspection is hereby acknowledged.

Title: 

Date: \_\_\_\_\_

# Mechanical Integrity Test Results

## Casing or Annulus Pressure Test

Osage ENR Department

100 W. MAIN ST, STE-304

Pawhuska, Ok 74056

Inspector: Larry Stephens

Test Date: 02/28/2014

Test Time: 11:20 AM

Operator Representative: JACOB BAYS

Date Report Sent to Operator: \_\_\_\_\_

### General Well Data

Operator: Chaparral Energy - 158  
701 Cedar Lake Blvd.  
OKC, OK 73114

Inventory Number: OS6273012

API Well No.: 35-113-99940-20-50

Well Name/No.: NBU 31W43

Location: SW 14 27N 5E S - E

Phone: (405) 426-4397

Field name: \_\_\_\_\_

Injection Interval: 3054 - 3097 USDW Bot: \_\_\_\_\_

Well Type: \_\_\_\_\_

Annulus Fluid Type: SWPF Concentric Pkr: - Packer Depth: 3016 Casing: 7 in. Tubing: 2.4 in.

### Tubing and Annulus Pressure Test Results

Type of MIT: Std. Annulus Pres. Test

Test Reason: Post Workover Test

Inj. Status: N Inj. Rate: \_\_\_\_\_ bpd Tubular Lining: Plastic Time Since Ann Filled: \_\_\_\_\_ Hrs

	Time	Tubing Pressure	Time	Annulus Pressure
Pre-Test:		<u>0</u>		<u>0</u> psi
Initial:	<u>11:20 AM</u>	<u>0</u>		<u>240</u> psi
Mid:	<u>11:35 AM</u>	<u>0</u>		<u>230</u> psi
Final:	<u>11:50 AM</u>	<u>0</u>		<u>230</u> psi

Flowback	Pressure	Volume
High:	<u>230</u> psi	
Mid:	<u>100</u> psi	<u>7250</u> ml
Low:	<u>20</u> psi	<u>4000</u> ml
End:	<u>0</u> psi	<u>150</u> ml
Total Volume:		<u>11400</u> ml

#### Casing/Tubing Annulus Monitoring

Device: \_\_\_\_\_

Fluid Level: \_\_\_\_\_ Annulus Prs: \_\_\_\_\_ psi

Test Result: Pass

Failure Type: \_\_\_\_\_

Failure Cause: \_\_\_\_\_

Repair Due: \_\_\_\_\_

Engineer Signature: \_\_\_\_\_

Review Date: 3/11/14

#### ADA Pressure Test - Required Test Pressure

(Fluid Column Ht \* Specific Gravity \* .433 / N2 Wt Fac = Required Test Pressure)

	Tubing	Annulus
Depth to Top Perf/Open Hole:	_____ ft	_____ ft
Depth to Fluid Level:	_____ ft	_____ ft
Fluid Column Height:	_____ ft	_____ ft
Specific Gravity of Fluid:	<u>1.06</u>	<u>1.06</u>
Nitrogen Weight Factor:	_____	_____
Required Test Pressure:	_____ psi	_____ psi

### Additional Comments for Mechanical Integrity Test

PACKER DEPTH AT 3016'. POST WORKOVER MIT----  
HELD PRESSURE OK. PULL TUBING AND PACKER-  
TEST AND LAYDOWN. CLEAN HOLE TO TD USING  
HEAVY MUD. PICK UP TUBING AND PACKER  
SETTING IN HOLE AT 3016'

**Well Inspection**  
**Osage ENR Department**  
**100 W. MAIN ST, STE-304**  
**Pawhuska, Ok 74056**

Inspector: Larry Stephens *lms* Dt/Tm Inspected: 2/28/2014 11:20:00 Duration: 0.9  
Operator Representative: JACOB BAYS Dt Scheduled: \_\_\_\_\_ Dt Op Notified \_\_\_\_\_

**General Well Data and Inspection Information**

Operator: Chaparral Energy	Inventory No.: <u>OS6273012</u> API Well No. <u>35-113-99940-20-50</u>
701 Cedar Lake Blvd.	Well Name/No.: <u>NBU 31W43 31W43</u> Status: _____
OKC OK 73114-	Location: _____ Well Type: _____
Phone: (405) 426-4397	Field Nm: _____ Lat/Lng: <u>36.8137 , 96.7369 G</u>

**ROUTINE W/MIT INSPECTION**

Purpose: <u>Inspection During MIT</u>	Responsible Company at Time of Inspection: <u>Chaparral Energy</u>	
Inspect No.: <u>iLMS1406533222</u>	Notification Type: _____	
Incident No.: _____	Date Letter Sent to Owner: _____	Extension Date: _____
Comply No.: _____	Date Remedy Required: _____	Date Passed: _____

**Pressures / Conditions**

Date Last MIT: 2/28/2014 11:20:00 AM Test Result: \_\_\_\_\_ Casing: 7 in. Tubing: 2.375 in. USDW: \_\_\_\_\_ ft subsurf

Monitoring Device Elected: _____
Monitoring Device: _____
FLM Canister Pressure: _____
Lease Status: <u>Active</u>
Barrel Monitor Hooked Up?: _____
Barrel Fluid Level (%): _____
Flowline Hooked Up?: <u>N</u>
Injecting?: <u>N</u>

	Tubing	Annulus	
Fittings:	<u>Y</u>	<u>Y</u>	<b>AUTHORIZED</b>
Actual Pressure:	<u>0</u>	<u>0</u>	Max Pressure: <u>2165</u>
How Determined?:	<u>OV</u>	<u>OV</u>	Min Req Press: _____
Static Fluid Level:	<u>0</u>	<u>0</u>	Max Rate: _____
How Determined?:	<u>O</u>	<u>O</u>	
Injection Rate (bpd): _____			How Rate Determined? _____

**Comments**

ACTIVE INJECTION WELL; POST WORKOVER MIT---  
HELD PRESSURE OK. PULL TUBING AND PACKER-  
TEST AND LAYDOWN. CLEAN HOLE TO TD USING  
HEAVY MUD. PICK UP TUBING AND NEW PACKER.



US ENVIRONMENTAL PROTECTION AGENCY  
OSAGE UIC PROGRAM  
100 W. MAIN ST, SUITE 304  
PAWHUSKA, OK 74056

US ENVIRONMENTAL PROTECTION AGENCY  
REGION VI - (6W-SE)  
1445 ROSS AVE  
DALLAS, TEXAS 75202-2733

NOTICE OF INSPECTION

DATE 2-28-14 HOUR 11:15am

Firm Name

Chaparral Energy

Firm Address

Inspector Name & Title

Larry Stephens - geologist

Inspector Signature

lms

Notice of Inspection is hereby given according to Section 1445(b) of the  
Safe Drinking Water Act (42 U.S.C. §300 f et seq.)

Reason for Inspection

Post Workover MIT

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to and applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable permit or rule.

NBU 31W43

SW 14-27N-5E

OS# 6273012

Packer @ 3016'

2 3/8" Fiberglass tbg @ 3012'

7" Casing @ 3054'

3054'-3094'

Conn - NO

INS - NO

o m Am (ov)

Pull tbg; Packer  
Test.

11:20 @ 240#

11:35 @ 230#

11:50 @ 230#

232100 = 7250 mL  
100-20 = 4000 mL  
20-0 = 150 mL  
Total = 11,400 mL

Hold Pressure OK

Section 1445(b) of the SDWA (42 U.S.C. §300 j-4 (b) ) is quoted on the reverse of this form

EPA Form

Receipt of this Notice of Inspection is hereby acknowledged.

Title: 

Date: \_\_\_\_\_

# Mechanical Integrity Test Results

## Casing or Annulus Pressure Test

Osage ENR Department

100 W. MAIN ST, STE-304

Pawhuska, Ok 74056

Inspector: Larry Stephens

Test Date: 02/28/2014

Test Time: 12:25 PM

Operator Representative: JACOB BAYS

Date Report Sent to Operator:

### General Well Data

Operator: Chaparral Energy - 158  
701 Cedar Lake Blvd.  
OKC, OK 73114

Inventory Number: OS6273040

API Well No.: 35-113-08378-00-00

Well Name/No.: NBU 32-W27

Location: SE 14 27N 5E 420N - 715E

Phone: (405) 426-4397

Field name:

Injection Interval: 3007 - 3043 USDW Bot:

Well Type: EOR

Annulus Fluid Type: **SUPF** Concentric Pkr: - Packer Depth: 2943 Casing: 3.5 in. Tubing: 2.1 in.

### Tubing and Annulus Pressure Test Results

Type of MIT: Std. Annulus Pres. Test

Test Reason: Post Workover Test

Inj. Status: N Inj. Rate: bpd Tubular Lining: Plastic Time Since Ann Filled: Hrs

	Time	Tubing Pressure	Time	Annulus Pressure
Pre-Test:		0		0 psi
Initial:	12:25 PM	0		220 psi
Mid:	12:40 PM	0		220 psi
Final:	12:55 PM	0		220 psi

Flowback	Pressure	Volume
High:	220 psi	
Mid:	100 psi	1100 ml
Low:	20 psi	1100 ml
End:	0 psi	100 ml
Total Volume:		2300 ml

#### Casing/Tubing Annulus Monitoring

Device:

Fluid Level: Annulus Prs: psi

Test Result: **Pass**

Failure Type:

Failure Cause:

Repair Due:

Engineer Signature

Review Date: 3/11/14

#### ADA Pressure Test - Required Test Pressure

(Fluid Column Ht \* Specific Gravity \* .433 / N2 Wt Fac = Required Test Pressure)

	Tubing	Annulus
Depth to Top Perf/Open Hole:	ft	ft
Depth to Fluid Level:	ft	ft
Fluid Column Height:	ft	ft
Specific Gravity of Fluid:	1.06	1.06
Nitrogen Weight Factor:		
Required Test Pressure:	psi	psi

### Additional Comments for Mechanical Integrity Test

PACKER DEPTH AT 2943'. POST WORKOVER MIT---  
HELD PRESSURE OK. PULL TUBING AND PACKER,  
TEST AND LAYDOWN. CLEAN HOLE TO TD USING  
HEAVY MUD. PICK UP TUBING AND PACKER  
SETTING IN HOLE AT 2943'

**Well Inspection**  
**Osage ENR Department**  
**100 W. MAIN ST, STE-304**  
**Pawhuska, Ok 74056**

Inspector: Larry Stephens *lms* Dt/Tm Inspected: 2/28/2014 12:25:00 Duration: 0.8  
Operator Representative: JACOB BAYS Dt Scheduled: \_\_\_\_\_ Dt Op Notified \_\_\_\_\_

**General Well Data and Inspection Information**

Operator: Chaparral Energy	Inventory No.: <u>OS6273040</u> API Well No. <u>35-113-08378-00-00</u>
701 Cedar Lake Blvd.	Well Name/No.: <u>NBU 32-W27 32-W27</u> Status: <u>TA</u>
OKC OK 73114-	Location: <u>SE 14 27N 5E 715E - 420N</u> Well Type: <u>EOR</u>
Phone: (405) 426-4397	Field Nm: _____ Lat/Lng: <u>36.8172 , -96.7278 G</u>

**ROUTINE W/MIT INSPECTION**

Purpose: <u>Inspection During MIT</u>	Responsible Company at Time of Inspection: <u>Chaparral Energy</u>	
Inspect No.: <u>iLMS1406532453</u>	Notification Type: _____	
Incident No.: _____	Date Letter Sent to Owner: _____	Extension Date: _____
Comply No.: _____	Date Remedy Required: _____	Date Passed: _____

**Pressures / Conditions**

Date Last MIT: 2/28/2014 12:25:00 PM Test Result: \_\_\_\_\_ Casing: 3.5 in. Tubing: 2.062 in. USDW: \_\_\_\_\_ ft subsurf

Monitoring Device Elected: _____
Monitoring Device: _____
FLM Canister Pressure: _____
Lease Status: <u>Active</u>
Barrel Monitor Hooked Up?: _____
Barrel Fluid Level (%): _____
Flowline Hooked Up?: <u>N</u>
Injecting?: <u>N</u>

	Tubing	Annulus	
Fittings:	<u>Y</u>	<u>Y</u>	<b>AUTHORIZED</b>
Actual Pressure:	<u>0</u>	<u>0</u>	Max Pressure: <u>2165</u>
How Determined?:	<u>OV</u>	<u>OV</u>	Min Req Press: _____
Static Fluid Level:	<u>0</u>	<u>0</u>	Max Rate: _____
How Determined?:	<u>O</u>	<u>O</u>	
Injection Rate (bpd): _____			How Rate Determined? _____

**Comments**

ACTIVE INJECTION WELL; POST WORKOVER MIT---  
HELD PRESSURE OK. PULL TUBING AND PACKER,  
TEST AND LAYDOWN. CLEAN HOLE TO TD USING  
HEAVY MUD, PICK UP TUBING AND PACKER  
SETTING IN HOLE AT 2943'.

US ENVIRONMENTAL PROTECTION AGENCY  
OSAGE UIC PROGRAM  
100 W. MAIN ST, SUITE 304  
PAWHUSKA, OK 74056

US ENVIRONMENTAL PROTECTION AGENCY  
REGION VI - (6W-SE)  
1445 ROSS AVE  
DALLAS, TEXAS 75202-2733

NOTICE OF INSPECTION

DATE 2-28-14 HOUR 12:20 pm

Firm Name

Chaparral Energy

Firm Address

Inspector Name & Title

Samy Stephens - geologist

Inspector Signature

ums

Notice of Inspection is hereby given according to Section 1445(b) of the  
Safe Drinking Water Act (42 U.S.C. §300 f et seq.)

Reason for Inspection

Post Workover MIT

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to and applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable permit or rule.

NBU 32 W 27  
SE 14-27 N-5E  
OS # 6273040

Conn - NO  
INS - NO  
on Ann (or)

12:25 @ 220 #  
12:40 @ 220 #  
12:55 @ 220 #

220-100 = 1100 ml  
100-20 = 1100 ml

20-0 = 100 ml

Total = 2,300 ml

Packer @ 2943'  
2 3/8" Hg @ 2937'  
3 1/2" Casing @ 2999'

Pull tubing - Packer  
Test.

Held Pressure OK

Section 1445(b) of the SDWA (42 U.S.C. §300 j-4 (b) ) is quoted on the reverse of this form

EPA Form

Receipt of this Notice of Inspection is hereby acknowledged.

Title:

Date:

# Mechanical Integrity Test Results

## Casing or Annulus Pressure Test

Osage ENR Department

100 W. MAIN ST, STE-304

Pawhuska, Ok 74056

Inspector: Larry Stephens

Test Date: 02/28/2014

Test Time: 1:00 PM

Operator Representative: JACOB BAYS

Date Report Sent to Operator:

### General Well Data

Operator: Chaparral Energy - 158

701 Cedar Lake Blvd.

OKC, OK 73114

Inventory Number: OS6273039

API Well No.: 35-113-08377-00-00

Well Name/No.: NBU 32-W25

Location: SE 14 27N 5E 420N - 565W

Phone: (405) 426-4397

Field name:

Injection Interval: 3023 - 3073

USDW Bot: 192

Well Type: EOR

Annulus Fluid Type: SWPF Concentric Pkr: - Packer Depth: 2968 Casing: 3.5 in. Tubing: 2.1 in.

### Tubing and Annulus Pressure Test Results

Type of MIT: Std. Annulus Pres. Test

Test Reason: Post Workover Test

Inj. Status: N Inj. Rate: bpd Tubular Lining: Fiberglass Time Since Ann Filled: Hrs

	Time	Tubing Pressure	Time	Annulus Pressure
Pre-Test:		0		0 psi
Initial:	1:00 PM	0		220 psi
Mid:	1:15 PM	0		220 psi
Final:	1:30 PM	0		220 psi

Flowback	Pressure	Volume
High:	220 psi	
Mid:	100 psi	1100 ml
Low:	20 psi	950 ml
End:	0 psi	100 ml
Total Volume:		2150 ml

Casing/Tubing Annulus Monitoring

Device:

Fluid Level: Annulus Prs: psi

Test Result: Pass

Failure Type:

Failure Cause:

Repair Due:

Engineer Signature: [Signature]

Review Date: 3/11/14

ADA Pressure Test - Required Test Pressure

(Fluid Column Ht \* Specific Gravity \* .433 / N2 Wt Fac = Required Test Pressure)

	Tubing	Annulus
Depth to Top Perf/Open Hole:	ft	ft
Depth to Fluid Level:	ft	ft
Fluid Column Height:	ft	ft
Specific Gravity of Fluid:	1.06	1.06
Nitrogen Weight Factor:		
Required Test Pressure:	psi	psi

### Additional Comments for Mechanical Integrity Test

NEW PACKER DEPTH OF 2968'. POST WORKOVER  
MIT---HELD PRESSURE OK. PULL TUBING AND  
PACKER, TEST AND LAYDOWN. CLEAN HOLE TO  
TD USING HEAVY MUD. PICK UP TUBING AND  
NEW PACKER SETTING IN HOLE AT 2968'.

**Well Inspection**  
**Osage ENR Department**  
**100 W. MAIN ST, STE-304**  
**Pawhuska, Ok 74056**

Inspector: Larry Stephens  Dt/Tm Inspected: 2/28/2014 1:00:00 Duration: 0.9  
Operator Representative: JACOB BAYS Dt Scheduled: \_\_\_\_\_ Dt Op Notified \_\_\_\_\_

**General Well Data and Inspection Information**

Operator: Chaparral Energy 701 Cedar Lake Blvd. OKC OK 73114- Phone: (405) 426-4397	Inventory No.: <u>OS6273039</u> API Well No. <u>35-113-08377-00-00</u> Well Name/No.: <u>NBU 32-W25 32-W25</u> Status: _____ Location: <u>SE 14 27N 5E 565W - 420N</u> Well Type: <u>EOR</u> Field Nm: _____ Lat/Lng: <u>36.8172 , -96.7326 G</u>
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**ROUTINE W/MIT INSPECTION**

Purpose: <u>Inspection During MIT</u>	Responsible Company at Time of Inspection: <u>Chaparral Energy</u>	
Inspect No.: <u>iLMS1406531888</u>	Notification Type: _____	
Incident No.: _____	Date Letter Sent to Owner: _____	Extension Date: _____
Comply No.: _____	Date Remedy Required: _____	Date Passed: _____

**Pressures / Conditions**

Date Last MIT: 2/28/2014 1:00:00 PM Test Result: \_\_\_\_\_ Casing: 3.5 in. Tubing: 2.135 in. USDW: 192 ft subsurf

Monitoring Device Elected: \_\_\_\_\_

Monitoring Device: \_\_\_\_\_

FLM Canister Pressure: \_\_\_\_\_

Lease Status: Active

Barrel Monitor Hooked Up?: \_\_\_\_\_

Barrel Fluid Level (%): \_\_\_\_\_

Flowline Hooked Up?: Y

Injecting?: N

	Tubing	Annulus	
Fittings:	Y	Y	<b>AUTHORIZED</b>
Actual Pressure:	0	0	Max Pressure: <u>827</u>
How Determined?:	UIC	OV	Min Req Press: _____
Static Fluid Level:	0	0	Max Rate: _____
How Determined?:	O	O	
Injection Rate (bpd):	_____	_____	How Rate Determined? _____

**Comments**

ACTIVE INJECTION WELL; POST WORKOVER MIT----  
HELD PRESSURE OK. PULL TUBING AND PACKER  
AND LAY DOWN. CLEAN OUT HOLE TO TD USING  
HEAVY MUD. PICK UP TUBING AND NEW PACKER,  
SETTING IN HOLE AT 2968'.

US ENVIRONMENTAL PROTECTION AGENCY  
OSAGE UIC PROGRAM  
100 W. MAIN ST, SUITE 304  
PAWHUSKA, OK 74056

US ENVIRONMENTAL PROTECTION AGENCY  
REGION VI - (6W-SE)  
1445 ROSS AVE  
DALLAS, TEXAS 75202-2733

NOTICE OF INSPECTION

DATE 2-28-14 HOUR 12:55 pm

Firm Name

Firm Address

Chaparral Energy

Inspector Name & Title

Inspector Signature

Larry Stephens - geologist

Lma

Notice of Inspection is hereby given according to Section 1445(b) of the  
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Reason for Inspection

Post Workover MIT

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NBU 32W25

SE 14-27N-5E

OS # 0308

(6273039)

Packer @ 2968'

2 3/8" tbg @ 2962'

3 1/2" Casing @ 3022'

Conn - yes

INJ - No

o on Ann (ov)

1:00 @ 220#

1:15 @ 220#

1:30 @ 220#

Pull tubing: Packer-Test

Clean hole to TD

w/ heavy mud. Pick

up tubing: New

Packer, setting in hole

@ 2968'

220-100 = 1100 ml

100-20 = 950 ml

20-0 = 100 ml

Total = 2,150 ml

Hold Pressure OK

Section 1445(b) of the SDWA (42 U.S.C. §300 j-4 (b)) is quoted on the reverse of this form

EPA Form

Receipt of this Notice of Inspection is hereby acknowledged.

Title: [Signature]

Date: \_\_\_\_\_